68119 C/39 CIBA GEIGY AG EP-15-505 01.03.79-CH-002007 (17.09.80) C07c-103/26 C07c-125/06 C07c-127/15 C07c-147/16 C07c-149/18 3-amino-1,2-propone-dial 1-aryl ether deriva. - used as advantingle blackers or plimulants for treating cordiac disorders D/S: E(BE, CH, DT, FR, GB, FT, LU, NL, OE, SW).

3-Amino-1,2-propanediol derive, of formula (1) and their salts are new. - CONR R AFOCH CHORCH NH- 111- (O)

(Ar is opt, substd. sryl (including beterearyl); sik is 2-3C elkyleon with \$ 2C in the chain between the NH and the phenyl or phenoxy gp.; R, and R, ere each H or lower alkyl; or they together form lower alkylens opt, interrupted by O, S, N or Nlower alkyi).

Some cpds. (i), cep, those with Ar a hydroxyphenyi, have \$-edrenergic stimulant activity with high selections

CIBA 01.03.79 8(7-H1, 7-H2, 10-82), 12-52, 12-56, 12-67, 12-51, 12-52, 12-531.5 4.7 vity for cardiac (p.) receptors. They can be used so

thy for contact Directors. Buy can be used a positive heaving heaves are a restrictional for two-politive heaving heaves are a restriction of two politics heaving heaves are a restriction of the contact with contact principles of the heaves of two contact and the arrival measures. Does not not to the contact heaving a restriction of the contact heaves of the heaves of the contact heaves of the contact heaving a heaving a restriction of the contact heaves of the con-tact heaves of the contact heaves of the contact heaving a heaving a restriction of the contact heaving and the heaves obtained heaving a restrict heaving and the activities of the contact heaving and the contact heaving a heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving a restriction of the contact heaving and the heaving and the contact heaving and the contact heaving and the contact heaving and the contact heaving and the heaving and the contact heaving and the heaving and the contact heaving and the contact heaving and the heaving and the contact heaving and the contact heaving and the heaving and the contact heaving and the contact heaving and the contact heaving and the heaving and the contact heaving and the contact heaving and the contact heaving and the contact heaving and the

(i) the said <u>Differences</u> for their open, e.g., <u>dryst</u>, <u>dryst</u>, <u>PSTCHTCALT CLARIES</u>

25 <u>PSTCHTCALT CLARIES</u>

25 <u>PSTCHTCALT CLARIES</u>

26 <u>PSTCHTCALT CLARIES</u>

27 <u>PST</u>

(III) (one of Z<sub>1</sub> and Z<sub>2</sub> is reactively cetorified OH, the ether le NH<sub>2</sub> and X<sub>1</sub> is OH; or X<sub>1</sub> and Z<sub>1</sub> together are epoxy and Z<sub>2</sub> is NH<sub>2</sub>. (b) Precursors with protected hydroxy gps. can bo (c) Imino (Schiff base) precursors with #N-or -N= in
the side-chain instead of -NH- can be reduced to (1), opt. with simultaneous reductive deprotection of CH gps.

-со.н Ariochichohchinh—(Alk)—(O)

(Ar, Is as Ar or an Ar gp. conig. I or 2 gps. which can be aminolysed to OH; X8 is H or an aminolysable protecting gp.)

OH roch chchinh—alk— (o) (VIII) →(I<sub>1</sub> R<sub>1</sub> = R<sub>2</sub> = H)

OH gps. in (VIII) may be protected by hydrolysable gps.

A mixt, of il. 2 g1-(2-allylexy-phenexy)-3-amino-2-propanol, 10.5 g5-(2-exo-propexy)-salicylamide, 200 mit tolume and a few drope of acetic acid was refluxed until water spen, ceased (2-3 hrs.). The residue was dissolved in 300 mi EOH. 5.7 g NaBH, was added in dissolved in Juo mi gain. 3.7 g raint, was acore in portions with stirring. The mixt, was stirred 2 bys, at 20-30°C, left to stand overnight, adjusted to pld 3-6 with HCl. filtered and evapt. The residue was partitioned between 100 ml water and 100 ml EDOR. The aq. phase oerees 100 mi water and 100 ml EDOA. The sq. phase was made alkaline with Nit,OH and extd. with 200 ml EDOAc. The organic phase was worked up to give an enatitioner mixts of 1-[c-all-phary-phenoxy]-7.7-(1-c-arbamoyl-4-byteney-phenoxy)-1-mably-styfamlay. 2-proponed as an oil. Slow cryston, from 1-PrOH gave the pare smantiomer pairs, m. pt. 123-125 C and 88-102 C. (91pp941). (G) ISR: D62032642; D72357849. EP--1550

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